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DOCKET NO.: V0189.70013US01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Barb Ariel Cohen et al.  
Serial No.: 10/526,040  
Confirmation No.: 2953  
Filed: February 28, 2005  
For: ALPHA-AMYLASE ASSAY AND USES THEREOF  
Examiner: Not Yet Assigned  
Art Unit: Not Yet Assigned

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 31<sup>st</sup> day of October, 2005.

  
Melissa L. Barlow Lyons

MAIL STOP Amendment  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:


Transmitted herewith are the following documents:

- Information Disclosure Statement
- PTO Form 1449
- Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,  
Barb Ariel Cohen et al., Applicant

By:   
Mary Dilys S. Anderson, Ph.D., Reg. No.: 52,560  
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Docket No.: V0189.70013US01  
Date: October 31, 2005  
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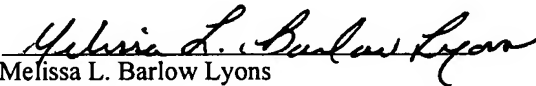
Applicant: Barb Ariel Cohen et al.  
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Melissa L. Barlow Lyons

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**MAIL STOP Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed before the mailing of a first Office action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

The above-identified U.S. application claims priority to application Serial No. PCT/US2003/026084. If the Examiner has not had the benefit of review of the file history of PCT/US2003/026084, then he/she is asked to contact the undersigned, who will provide a copy of same.

The Applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
10/230,969	August 29, 2002	Barb Ariel Cohen et al.

The Applicant would like to bring to the Examiner's attention the enclosed search report from a corresponding International or Foreign National Application: PCT/US2003/026084.

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;

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Art Unit: Not Yet Assigned

3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).


By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,

By:

  
Mary Dilys S. Anderson, Ph.D.  
Reg. No. 52,560  
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Boston, Massachusetts 02210-2206  
Telephone: (617) 646-8000

Docket No.: V0189.70013US01  
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<b>FORM PTO-1449/A and B (modified PTO/SB/08)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 10/526,040		ATTY. DOCKET NO.: V0189.70013US01	
				FILING DATE: February 28, 2005		CONFIRMATION NO.: 2953	
				APPLICANT: Barb Ariel Cohen et al.			
				GROUP ART UNIT: Not Yet Assigned		EXAMINER: Not Yet Assigned	
Sheet	1	of	2				

#### U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1*	5,491,068		Benjamin et al.	02-14-1996
	A2*	5,840,504		Blecher	11-24-1998
	A3*	6,362,008	B1	Kohn et al.	03-26-2002
	A4	4,622,295		Ikenaka et al.	11-11-1996

#### FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
CHECK	B1*	WO	97/21831	A1	University of Sunderland	06-19-1997	
	B2*	WO	98/54973	A1	Kansas State University Research Foundation	12-10-1998	
	B3*	WO	00/28319	A1	Quality Wheat CRC Limited	05-18-2000	
	B4*	WO	04/020970		VICAM, L.P.	03-11-2004	

#### OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C1*	BELDEROK, B. Developments in bread-making processes. Plant Foods Hum Nutr; 55(1):1-86, 2000.	
	C2*	COLLADO et al. Accurate estimation of sweetpotato amylase activity by flour viscosity analysis. J. Agric. Food Chem. 47: 832-835, 1999.	
	C3*	CRC FOR QUALITY WHEAT PRODUCTS AND PROCESSES, Exploring CRC Research Agricultural Highlights: CRC for Quality Wheat Products and Processes: Gene research finds niche market. NO DATE.	
	C4*	CROSBIE, G.B. et al. The application of the flour swelling volume test for potential noodle quality to wheat breeding lines affected by sprouting. J. Cereal Science 18: 267-276, 1993.	
	C5*	CUATRECASAS, P. and ANFINSEN, C. Meth. Enzymol. 22: 351-378, 1971.	
	C6*	FOX, J.D, and ROBYT, J.F. Miniaturization of three carbohydrate analyses using a microsample plate reader. Anal Biochem 195(1): 93-96, 1991.	
	C7*	LINKO, Y-Y, et al. Starch conversion by soluble and immobilized alpha-amylase. Biotechnology and Bioengineering 18: 153-165, 1975.	

C8*	MANELIUS, R. et al. The effect of Ca <sup>2+</sup> ions on the alpha-amylolysis of granular starches from oats and waxy-maize. J. Cereal Science 24: 139-150, 1996.		
C9*	MEGAZYME INTERNATIONAL IRELAND LTD., Megazyme, Amylzyme Alpha-Amylase Assay Procedure: for the measurement of cereal and microbial alpha-amylases. 1-20, 1998.		
C10*	MOLECULAR PROBES INC. Detecting Glycosidases. Handbook of Fluorescent Probes and Research Chemicals Section 10.2: 1-14, 1996.		
C11*	MOLECULAR PROBES, INC. EnzChek™ amylase assay kit (E-11954) Product Information. MP-11954, 1999 and revised 2001.		
C12*	NO AUTHORS LISTED, Measuring enzyme activity. Lallemand Baking Update 1(15): 1-et seq, 1996.		
C13*	NO AUTHORS LISTED, Standardizing enzyme levels in flour. Lallemand Baking Update 1(15): 1-et seq, 1996.		
C14*	RANI, K.U. et al. Distribution of enzymes in wheat flour mill streams. J. Cereal Science 34: 233-242, 2001.		
C15*	RINDERKNECHT, H. et al. A new method for the determination of alpha-amylase. Experientia 23(10): 805, 1967.		
C16*	WONG, D.W.S. et al. Microassay for rapid screening of alpha-amylase activity. J. Agric. Food Chem. 48: 4540-4543, 2000.		
C17*	YANG, S-S. et al. Protease and amylase production of Streptomyces rimosus in submerged and solid state cultivations. Bot. Bull, Acad. Sin. 40: 259-265, 1999.		
C18*	SANDSTEDT, R. M. et al., A Standardized Wohlgemuth Procedure for Alpha-Amylase Activity. Department of Agricultural Chemistry, University of Nebraska, Annual Meeting: 712-723, 1939.		
C19*	INSTITUTE OF MEDICINE FOOD CHEMICALS CODEX, 4 <sup>th</sup> Edition, pages 1451-1454, 2000.		

EXAMINER:

DATE CONSIDERED:

# EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 10/230,969, filed August 29, 2002, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]